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**From:** Peterson, Erik  
**To:** Liu, Linda; Helder, Dirk; allison.castellan@noaa.gov; Wu, Jennifer; Carvalho, Gabriela; Henning, Alan  
**Sent:** 9/19/2014 12:32:02 PM  
**Subject:** RE: for mtg on 9/19/2014 -- RE: 8/28 OR CZARA Pesticides Mtg topics  
**Attachments:** Forest Herbicides in California.docx

Here are my findings from California.

In short, there do not appear to be any standard statewide or county buffers for forestry herbicides in California. There are some exceptions, such as California red-legged frog habitat. And, the fact that at least one large timber company and State Forests voluntarily treat Watercourse and Lake Protection Zones as *de facto* herbicide buffers.

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**From:** Liu, Linda  
**Sent:** Friday, September 19, 2014 8:09 AM  
**To:** Helder, Dirk; allison.castellan@noaa.gov; Wu, Jennifer; Carvalho, Gabriela; Henning, Alan; Peterson, Erik  
**Subject:** for mtg on 9/19/2014 -- RE: 8/28 OR CZARA Pesticides Mtg topics

Hi – Thanks to Dirk’s 8/28/2014 email, attached for your use is a draft document that I put together for today’s 10 am PDT discussion. I hope it addresses what Dirk wrote in his email.

Linda  
(206) 553-1447

**From:** Helder, Dirk  
**Sent:** Friday, August 29, 2014 10:08 AM  
**To:** Wu, Jennifer; Carvalho, Gabriela; Henning, Alan  
**Cc:** Liu, Linda  
**Subject:** RE: 8/28 OR CZARA Pesticides Mtg topics

Jenny, All,  
See what you think of this...

I wonder if one approach would be to compare the list of commonly used pesticides in forestry in Oregon to the list of chemicals included in the lawsuit for which BiOps have been completed. For those pesticides that show risk to salmon we could say “Oregon should take measures to protect salmon including salmon habitat such as Type-F streams but also Type-N streams flowing into salmon habitat. While the science and process EPA and the Services with follow in future risk assessments is still being developed and once risk assessments are completed, EPA may take additional measures to protect salmon. The science is clear that these pesticides pose some risk to salmon. Therefore, the State should take measures immediately to protect salmon and salmon habitat, there are a number of options the State could consider with buffers being one of them.”

Best,  
Dirk Helder  
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